



Military Sealift Command – UID Implementation Brief



April 8, 2010



MSC LOGISTICS APPROACH

LOGISTICS STRATEGY

- MSC continues to focus on improving logistical operations to optimize efficiency, effectiveness and readiness to meet current and future CONOPS.
- Enhance supportability of MSC two-level maintenance philosophy by marking items that qualify for Item Unique Identification (IUID) and Serialized Item Management (SIM). Capture and manage these uniquely identified items to benefit and achieve enhanced reliability, availability and maintenance management of MSC operated vessels.
- This strategy reflects a Continuous Process Improvement (CPI) to yield cost effective Configuration Data Management for all MSC ships.



SPECIFIC REQUIREMENTS

UNIQUE ITEM IDENTIFICATION MARKING

- UID requirement established by DOD
- Marking required for items if:
 - Value is $>$ or $=$ \$5,000
 - Serially managed
 - Item is mission essential
 - Item is sensitive or controlled inventory
 - Item requires permanent ID
- Required for all equipment repaired / replaced and any spares meeting UID requirements



SPECIFIC REQUIREMENTS

USS Emory S. Land (AS-39) Sample Items Requiring IUID Marking

SYSTEM	COMPONENT	QTY
FRESH/POTABLE WATER (HOT AND COLD) SYSTEM INSTALLATION	FRESH WATER PUMP	2
	PUMP MOTOR	2
	HOT WATER HEATER	2
MARINE SANITATION DEVICE SYSTEM INSTALLATION	MSD	2
	DISCHARGE PUMP	2
	PUMP MOTOR	2
	MOTOR CONTROLLER	2
OILY WATER SEP SYSTEM	OILY WATER SEPARATOR	2
	PUMP	2
	PUMP MOTOR	2
	MOTOR CONTROLLER	2
BILGE AND BALLAST SYSTEM INSTALLATION	BILGE & BALLAST PUMP	2
	PUMP MOTOR	2
	MOTOR CONTROLLER	2



SPECIFIC REQUIREMENTS

GENERAL CONFIGURATION MANAGEMENT

- Contractor responsible for providing specific identification of any equipment added, removed, modified or relocated (including identification of new location).
 - Responsible for providing Planned Add / Delete Report (PADR)
- Contractor responsible for providing review copies of equipment purchase orders to MSC On-Site ILSREP for configuration impact assessment.

The above reflects marking IUID candidates when an MSC ship undergoes a conversion or repair availability period in a CONUS shipyard.



Marking Information Provided by USS Emory S. Land (AS-39)

EQUIPMENT	LOCATION	QT Y	MFG. NAME	CAGE CODE	MODEL/Part Nr	SERIAL NO.
PORT LIFE BOAT	02 LVL PORT	1	WILLARD MARINE	58367	SEAFORCE 670 JET	WLD22042H 909
PORT RHIB DAVIT	02 LVL PORT WEATHER	1	ALLIED SYSTEMS	60848	D6700F-CTS	2134
PORT RHIB DAVIT CONTROL STAND	02 LVL PORT WEATHER	1	ALLIED SYSTEMS	60848	56783	2134/2
PORT RIB DAVIT HPU	02 LVL PORT WEATHER	1	ALLIED SYSTEMS	60848	61597	2134/1
STBD LIFE BOAT	02 LVL STBD	1	WILLARD MARINE	58367	SEAFORCE 670 JET	WLD22043H 909
STBD RHIB DAVIT	02 LVL STBD WEATHER	1	ALLIED SYSTEMS	60848	D6700F-CTS	2133
STBD RHIB DAVIT CONTROL STAND	02 LVL STBD WEATHER	1	ALLIED SYSTEMS	60848	56783	2133/2

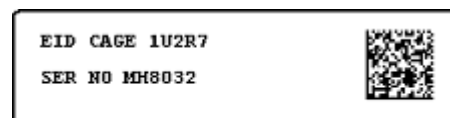


SPECIFIC REQUIREMENTS

UNIQUE ITEM IDENTIFICATION MARKING



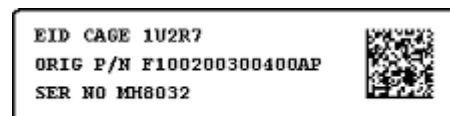
Mil-Std-130 UID Construct 1 Label



UID Construct 1 Label (Basic + HRI)



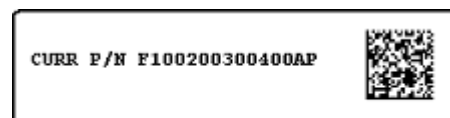
Mil-Std-130 UID Construct 2 Label



UID Construct 2 Label (Basic + HRI)



Mil-Std-130 UID Current Part Number Label



UID CPN Label (Basic + HRI)



Navy Standard Equipment Label Plate

U.S. DEPARTMENT OF THE NAVY			
[Blank space for title]			
MODEL	CAPACITY		
SER.	YEAR OF MANUFACTURE		
ENG. SER. NO.	[Blank space]		INSP. STAMP
REGISTRATION NO. USN	[Blank space]		
FSN	CONT. NO.		
SHIPPING WT.	LB.	GROSS VEHICLE WT.	LB.
OVERALL HEIGHT	IN.	WIDTH	IN.
WARRANTY	MO.	OR	ML. DATE SHIP.
[Blank space for notes]			

Legacy Equipment Identification
Nameplate



AS- 39 USS EMORY S. LAND



UID Label on OEM Label



Label attached to heavy forged surface



T-AKE SHIP MARKING



Sacagawea parent
Label on Bridge

Hanging Tag
when space is
limited





INSTALLATION TEAMS





MARKING ACHIEVEMENTS

- ❖ **Over 12000 assets marked and registered**
- ❖ **Improved marking efficiency by 600% from T-AKE 1 to T-AKE 8**
- ❖ **Perfected team marking approach and extended capabilities with each effort**
- ❖ **Identified future improvements and working on using data as marked asset base increases**



MSC REQUIREMENTS

- **UID Compliant**
 - Address the policy and memo letters from OSD to leverage IUID
 - Implement a scalable solution that other MSC ship classes can leverage.
 - Work with commercial partners on marking techniques, hardware, design change processes, data registration and management.
- **Improve Cycle Time Audits**
 - Leverage the database and barcode to gain efficiencies in required periodic audits.
 - Utilize AIT technology to reduce headcount needed during audits
- **Interface with legacy systems such as SHIPCLIP for configuration management**
 - Leverage IUID integration with existing individual ship's Configuration Logistics Information Program (CLIP) database.
 - Enable a solution that implements customer driven requirements with user defined actions and rules.



Savi Solutions - To MSC Requirements

- The Savi I-Guides and SmartChain solution can improve asset visibility and inventory management
 - Savi provides the industry leading UID solution, I-GUIDES, that improves accountability and productivity.
 - The Smart Chain platform provides the ability to implement requirements as rules to provide user defined outcomes and send alerts to appropriate people within the organization when exceptions occur. The Savi solution also provides an automated solution for inventory reconciliation.
- Savi leverages open architecture for integration across solutions and systems
 - Savi I-Guides and SmartChain solutions have been developed leveraging industry standards languages and Service-Oriented Architectures, enabling data sharing between other COTS solutions (SAP) and other open architecture systems (GOTS)
- Savi is a proven leader in AIT technologies
 - The architecture being proposed is scalable, enabling integration of more advanced technologies such as RFID and GPS systems and is expandable to add units
 - Savi solutions support the world's largest RFID network, providing visibility in a global network.
Savi provides the ability to deliver a timely, cost effective, low risk solution



Savi Solutions - To MSC Requirements

- Savi reduces risk by assuming responsibility to adapt to policy changes
 - As the COTS solution provider, Savi would be responsible to meeting DoD policy changes.
- The Savi COTS solution provides more immediate functionality and lower life cycle costs than developing the UID solution into an existing system or developing from scratch.
 - Leveraging COTS products, the Savi solution could be functional in a few months vice years of development of a new GOTS solution or the development of the functionality in a legacy system. The life cycle cost of the solution would be less as updates, product support and new releases would be part of the annual software maintenance.
- I-Guides can leverage the marking efforts with CAMCODE to provide compliancy with the UID mandate and provide class level visibility.

Savi provides the ability to deliver a timely, cost effective, low risk solution



Working Interface with other Databases

Custom fields by environment will relate UID to key fields in legacy systems such as SHIPCLIP, buffering policy evolution at I-GUIDES not the support system.

**I-GUIDES
database**

UID	Doc fields	SAIL	Ind	Purc h	Maint

**SHIPCLIP
database**

Key field	Other fields

**Purchasing
database**

Key field	Other fields

**Maintenanc
e database**

Key field	Other fields

**Classified
indicator**

Key field	Other fields

**Custom fields can also be key
fields of data or attributes that
need to tracked along with the
asset**

Each environment can have its own set of custom fields relating to separate legacy platforms covering multiple enterprises



Marking Lessons Learned

1. Care must be taken to accurately mark the correct assets
2. Original systems data can be flawed. Mark only what can be accurately identified
3. Equipment installation can vary from expectations
4. Some assets will be unavailable on first effort due to lockouts, construction, weather, asset identity confusion, etc.
5. A team of specialists (Commercial/Government mix) can expedite and ensure accurate and permanent marking. MSC used IUID labeling subject matter experts (Camcode), familiar with shipboard systems to achieve best value.



New Assets in 2012 – JHSV





MSC LOGISTICS POINTS OF CONTACT

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